

IN THE CLAIMS:

Please CANCEL claims 22-44. Please ADD claims 45-54 (drafted to be in the species class of Group I). Please also amend the claims prior to the examination on the merits as indicated below.

- 1 1. (presently amended) A negotiated wireless peripheral system
2 comprising:
3 a short-range wireless transceiver operative to support a position-dependent
4 ecommerce session with a mobile unit;
5 a negotiation module coupled to the short-range wireless transceiver, the
6 negotiation module operative to engage in a handshaking sequence with the mobile unit
7 to establish the position-dependent ecommerce session;
8 a service module coupled to the short-range wireless transceiver and operative to
9 supply at least one user interface peripheral augmentation service to the mobile unit; and
10 a contract module operative to negotiate a billing arrangement with the mobile
11 unit for use of the at least one user interface peripheral augmentation service.
- 1 2. (Previously presented) The negotiated wireless peripheral of Claim 1,
2 wherein:
3 the contract module communicates with a server-side management entity to
4 access a pre-negotiated billing arrangement with the mobile unit.
- 1 3. (Previously presented) The negotiated wireless peripheral of Claim 1,
2 wherein:
3 the contract module performs a digital debit and/or digital credit card transaction
4 with the mobile unit.
- 1 4. (presently amended) The negotiated wireless peripheral of Claim 1,
2 wherein:
3 the user interface peripheral augmentation service provides the mobile unit with
4 desktop sized display surface, a desktop-style keyboard, and a pointing device.
- 1 5. (presently amended) The negotiated wireless peripheral of Claim 1,
2 wherein:
3 the user interface peripheral augmentation service comprises a ~~power connector~~
4 ~~used to power and/or charge~~ video conferencing user interface for the mobile unit.

1 6. (previously presented) The negotiated wireless peripheral of Claim 1,
2 wherein:

3 the position-dependent ecommerce session involves at least one security
4 association and at least one corresponding encryption algorithm.

1 7. (previously presented) For use in a negotiated wireless peripheral
2 system device, a method comprising:

3 communicating via a wireless local area network protocol with a mobile unit to
4 initiate the establishment of a position-dependent ecommerce session therewith;

5 engaging in a handshaking sequence with the mobile unit to establish the
6 position-dependent ecommerce session;

7 negotiating a billing arrangement with the mobile unit;

8 supplying at least one user interface peripheral augmentation service to the
9 mobile unit; and

10 billing for the user interface peripheral augmentation service supplied to the
11 mobile unit.

1 8. (previously presented) The method of Claim 7, wherein the position-
2 dependent ecommerce session is established via a wireless local area network (wLAN)
3 connection.

1 9. (previously presented) The method of Claim 7, wherein the position-
2 dependent ecommerce session is established via a wireless wide area network (wWAN)
3 and is initiated by having the mobile unit send a location parameter to a negotiated
4 wireless peripheral management server.

1 10. (previously presented) The method of Claim 9, wherein location
2 parameter comprises a set of global positioning system (GPS) coordinates.

1 11. (previously presented) The method of Claim 9, wherein location
2 parameter comprises a set of local positioning system (LPS) coordinates.

1 12. (previously presented) The method of Claim 9, wherein location
2 parameter comprises an identification code visibly located on the negotiated wireless
3 peripheral device.

1 13. (previously presented) The method of Claim 7, wherein the position-
2 dependent ecommerce session is established via a wireless wide area network (wWAN)

3 and is initiated by having the mobile unit send a URI or URL to a negotiated wireless
4 peripheral management server, whereby the URI or URL is visibly located on the
5 negotiated wireless peripheral device.

1 14. (previously presented) The method of Claim 7, wherein peripheral-
2 extension service further comprises:

3 passing a stub object to the mobile unit; and
4 invoking an input and/or output method in a remote object that receives a message
5 involving a marshaled method invocations and/or marshaled parameters from the stub
6 object.

1 15. (previously presented) The method of Claim 7, wherein peripheral-
2 extension service further comprises:

3 passing a stub object to the mobile unit; and
4 invoking a WAN communication method in a remote object that receives a
5 message involving a marshaled method invocations and/or marshaled parameters from
6 the stub object.

1 16. (presently amended) A mobile unit comprising:

2 a processor that executes software to provide a smart phone operating system and
3 a set of one or more application programs, the operating system and application programs
4 making use of an area-restricted user interface;

5 a first transceiver that communicates in accordance with a wireless wide area
6 network (wWAN) protocol;

7 a second transceiver that communicates in accordance with a short-range wireless
8 protocol;

9 a negotiation module coupled to the second transceiver, the negotiation module
10 operative to engage in a handshaking sequence with a negotiated wireless peripheral to
11 establish a position-dependent ecommerce session therewith;

12 a contract module coupled to the negotiation module and operative to negotiate a
13 billing arrangement with the negotiated wireless peripheral to contract with the
14 negotiated wireless peripheral to use one or more user interface peripheral services; and

15 a reconfiguration module operative to update a configuration definition in the
16 mobile unit to reconfigure ~~the~~ one or more user interface peripheral definitions of the

17 mobile unit to include the at least one user interface peripheral augmentation service
18 provided by the negotiated wireless peripheral.

1 17. (presently amended) For use in a mobile unit that communicates with a
2 network server and augments its user interface peripheral capabilities by contracting with
3 a negotiated wireless peripheral, a method comprising:

4 providing an operating system that supports an area-constrained user interface;
5 communicating with a network server in accordance with a wireless wide area
6 network (wWAN) protocol;

7 communicating with a negotiated wireless peripheral;
8 engaging in a handshaking sequence with the negotiated wireless peripheral to
9 establish a position-dependent ecommerce session therewith;

10 negotiating a billing arrangement with the negotiated wireless peripheral to
11 contract with the negotiated wireless peripheral to supply at least one user interface
12 peripheral augmentation service;

13 updating a configuration definition in the mobile unit to reconfigure at least one
14 user interface peripheral definition to reflect the at least one user interface peripheral
15 augmentation service.

1 18. The method of Claim 17, wherein communicating with the negotiated
2 wireless peripheral is performed using a wLAN connection.

1 19. The method of Claim 17, wherein a non-area constrained user interface is
2 presented to the user using the at least one extension peripheral.

1 20. The method of Claim 17, further comprising:

2 communicating with an application server via a WAN to perform client-side
3 processing of a client-server application program;

4 sending a peripheral-reconfiguration message to the application server; and

5 redirecting at least one peripheral input-output stream to the at least one
6 contracted peripheral supplied by the negotiated wireless peripheral.

1 21. The method of Claim 20, further comprising:
2 instantiating a stub object that communicates with a remote object, the remote
3 object being instantiated by and residing within the negotiated wireless peripheral;
4 invoking a method over the stub object, the method corresponding to an input
5 and/or an output operation;
6 passing a message from the stub object to the remote object;
7 whereby the remote object performs the input and/or the output operation in
8 response to the message in order to provide input and/or output devices extension
9 services to the mobile unit.

1 22-44 (cancelled)

1 45. (new) The negotiated wireless peripheral of Claim 1, wherein:
2 the user interface peripheral augmentation service provides the mobile unit with a
3 non-area constrained video viewing monitor screen for viewing downloadable video
4 program content.

1 46. (new) The negotiated wireless peripheral of Claim 1, wherein:
2 the user interface peripheral augmentation service provides the mobile unit with a
3 non-area constrained video viewing monitor screen and the user can redirect a video
4 viewing output stream from an area constrained viewing surface to the non-area
5 constrained video viewing monitor screen provided by the negotiated wireless peripheral.

1 47. (new) The method of Claim 7, wherein:
2 the user interface peripheral augmentation service provides the mobile unit with
3 desktop sized display surface, a desktop-style keyboard, and a pointing device.

1 48. (new) The method of Claim 7, wherein:
2 the user interface peripheral augmentation service comprises a video conferencing
3 user interface for the mobile unit.

1 49. (new) The method of Claim 7, wherein:
2 the user interface peripheral augmentation service provides the mobile unit with a
3 non-area constrained video viewing monitor screen for viewing downloadable video
4 program content.

1 50. (new) The method of Claim 7, wherein:

2 the user interface peripheral augmentation service provides the mobile unit with a
3 non-area constrained video viewing monitor screen and the user can redirect a video
4 viewing output stream from an area constrained viewing surface to be displayed on the
5 non-area constrained video viewing monitor screen provided by the negotiated wireless
6 peripheral.

1 51. (new) The mobile unit of Claim 16, wherein:

2 the user interface peripheral augmentation service provides the mobile unit with
3 desktop sized display surface, a desktop-style keyboard, and a pointing device.

1 52. (new) The mobile unit of Claim 16, wherein:

2 the user interface peripheral augmentation service comprises a video conferencing
3 user interface for the mobile unit.

1 53. (new) The mobile unit of Claim 16, further comprising an area-
2 constrained video display monitor and wherein:

3 the user interface peripheral augmentation service provides the mobile unit with a
4 non-area constrained video viewing monitor screen for viewing downloadable video
5 program content.

1 54. (new) The mobile unit of Claim 16, further comprising:

2 a video-on-demand download module; and

3 an area-constrained video display monitor;

4 wherein the mobile unit contracts with the user interface peripheral augmentation
5 service to provide a non-area constrained video viewing monitor screen and a video
6 output stream is redirected from the area constrained viewing surface to be viewed on the
7 non-area constrained video viewing monitor screen provided by the negotiated wireless
8 peripheral.

1 55. (new) The method of Claim 17, wherein:

2 the user interface peripheral augmentation service provides the mobile unit with
3 desktop sized display surface, a desktop-style keyboard, and a pointing device.

1 56. (new) The method of Claim 17, wherein:

2 the user interface peripheral augmentation service comprises a video conferencing
3 user interface for the mobile unit.

1 57. (new) A negotiated wireless peripheral system (NWP) comprising:

2 a short-range wireless transceiver operative to support a position-dependent
3 ecommerce session with a mobile unit;
4 a negotiation module coupled to the short-range wireless transceiver, the
5 negotiation module operative to engage in a handshaking sequence with the mobile unit
6 to establish the position-dependent ecommerce session;
7 a service module coupled to the short-range wireless transceiver and operative to
8 supply at least one WAN-offloading peripheral augmentation service to the mobile unit;
9 and

10 a contract module operative to negotiate a billing arrangement with the mobile
11 unit for use of the at least one WAN-offloading peripheral augmentation service;

12 wherein the NWP is configured to support a heterogeneous roaming handoff
13 protocol to allow a cellular telephony voice telephone call to be disconnected from a
14 cellular WAN interface and redirected to communicate with the short-range wireless
15 transceiver and routed via the Internet as a wide area networked VoIP telephone call, and
16 the NWP provides Internet access connectivity to the mobile unit.

1 58. (new) For use in a negotiated wireless peripheral system (NWP), a
2 method comprising:

3 communicating via a wireless local area network protocol with a mobile unit to
4 initiate the establishment of a position-dependent ecommerce session therewith;

5 engaging in a handshaking sequence with the mobile unit to establish the
6 position-dependent ecommerce session;

7 negotiating a billing arrangement with the mobile unit;

8 supplying at least one WAN-offloading peripheral augmentation service to the
9 mobile unit; and

10 billing for the WAN-offloading peripheral augmentation service supplied to the
11 mobile unit;

12 wherein the NWP is configured to support a heterogeneous roaming handoff
13 protocol to allow a cellular telephony voice telephone call to be disconnected from a
14 cellular WAN interface and redirected to communicate with the short-range wireless
15 transceiver and routed via the Internet as a wide area networked VoIP telephone call, and
16 the NWP provides Internet access connectivity to the mobile unit.

17 59. (new) The method of Claim 58, wherein the negotiating is performed by
18 authenticating that the mobile unit to correspond to a registered customer and the billing
19 is performed in accordance with the customer's pre-arranged billing policy and the
20 engaging and billing are each at least performed in part by a remote server that is in
21 network communication with a wireless access point portion of NWP.

1 60. (new) A mobile unit comprising:
2 a processor that executes software to provide a smart phone operating system and
3 a set of one or more application programs, the operating system and application programs
4 making use of an area-restricted user interface;
5 a first transceiver that communicates in accordance with a wireless wide area
6 network (wWAN) protocol;
7 a second transceiver that communicates in accordance with a short-range wireless
8 protocol;
9 a negotiation module coupled to the second transceiver, the negotiation module
10 operative to engage in a handshaking sequence with a negotiated wireless peripheral
11 (NWP) to establish a position-dependent ecommerce session therewith;
12 a contract module coupled to the negotiation module and operative to negotiate a
13 billing arrangement with the negotiated wireless peripheral to contract with the NWP to
14 use one or more WAN-offloading peripheral services;
15 a reconfiguration module operative to update a configuration definition in the
16 mobile unit to reconfigure a communication protocol stack in the mobile unit to make use
17 the WAN-offloading peripheral augmentation service provided by the NWP; and
18 a telephony module comprising a heterogeneous roaming software function
19 configured to:
20 change a processing of a telephone call from a cellular telephony media
21 processing protocol to a voice over Internet (VoIP) protocol; and
22 redirect the telephone call from communicating using the first transceiver
23 to communicating using the second transceiver so at least a portion of the
24 telephone call can be routed via the Internet as a wide area networked VoIP
25 telephone call.